BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Modified Estimate For Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
1	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of Thorney jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications.								
	Railway mens colony	Sqm							
	Cross Rd 1		1	115.00	1.20	--	138.00		
			1	84.20	1.20	--	101.04		
	Cross Rd 2		1	37.70	1.50	--	56.55		
			1	37.70	1.50	--	56.55		
	Cross Rd 3		1	210.90	1.20	--	253.08		
			1	244.70	1.20	--	293.64		
	Cross Rd 4		1	92.50	1.50	--	138.75		
			1	90.00	1.50	--	135.00		
	Cross Rd 5		1	167.50	1.20	--	201.00		
			1	197.50	1.20	--	237.00		
	Cross Rd 6		1	83.00	1.50	--	124.50		
			1	83.00	1.50	--	124.50		
	Cross Rd 7		1	264.00	1.20	--	316.80		
			1	280.00	1.20	--	336.00		
	Cross Rd 8		1	180.00	1.50	--	270.00		
	Cross Rd 9		1	20.00	1.50	--	30.00		
			1	20.00	1.50	--	30.00		
	Cross Rd 10		1	21.90	1.50	--	32.85		
			1	21.90	1.50	--	32.85		
	Cross Rd 11		1	43.90	1.50	--	65.85		
			1	26.00	1.50	--	39.00		
	MCHS Layout								
	6th cross		1	157.20	1.50	--	235.80		
			1	204.50	1.50	--	306.75		
	Cross Road		1	25.00	1.30	--	32.50		
			1	25.00	1.30	--	32.50		
	7th cross		1	166.00	1.40	--	232.40		
			1	158.10	1.50	--	237.15		
							4090.06	**11.13**	**45522.37**
	Quoted Rate	**11.13**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3)								
	Drain Desilt	Sqm							
	Hegdenagar								
	7th cross Hegdenagar		1	103.40	1.50	--	155.10		
			1	91.00	1.50	--	136.50		
	Cross Rd 2		1	18.00	1.50	--	27.00		
	Railway mens colony								
	Cross Rd 1		1	65.00	1.50	--	97.50		
			1	71.00	1.50	--	106.50		
	Cross Rd 2		1	23.00	1.50	--	34.50		
			1	24.00	1.50	--	36.00		
	Cross Rd 3		1	145.20	1.50	--	217.80		
			1	164.10	1.50	--	246.15		
	Cross Rd 4		1	64.50	1.50	--	96.75		
			1	60.00	1.50	--	90.00		
	Cross Rd 5		1	114.50	1.50	--	171.75		
			1	113.00	1.50	--	169.50		
	Cross Rd 6		1	53.00	1.50	--	79.50		
			1	56.00	1.50	--	84.00		
	Cross Rd 7		1	182.90	1.50	--	274.35		

			1	210.40	1.50	--	315.60		
	oss Rd 8		1	131.00	1.50	--	196.50		
	oss Rd 9		1	19.00	1.50	--	28.50		
			1	14.00	1.50	--	21.00		
	Cross Rd 10		1	16.00	1.50	--	24.00		
			1	18.00	1.50	--	27.00		
	Cross Rd 11		1	24.00	1.50	--	36.00		
			1	22.00	1.50	--	33.00		
	MCHS Layout								
	6th cross		1	134.20	1.50	--	201.30		
			1	169.50	1.50	--	254.25		
	Cross Road		1	22.00	1.50	--	33.00		
			1	20.00	1.50	--	30.00		
	7th cross		1	122.00	1.50	--	183.00		
			1	113.10	1.50	--	169.65		
	Hegdenagar								
	2nd cross Hegdenagar		1	167.00	0.90	--	150.30		
			1	185.00	0.90	--	166.50		
	3rd cross Hegdenagar		1	192.00	0.90	--	172.80		
			1	188.00	0.90	--	169.20		
							4234.50	**116.87**	**494864.84**
	Quoted Rate	**116.87**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	Damaged / missing	Sqm							
	Hegdenagar								
	7th cross Hegdenagar		1	50.00	1.50	--	75.00		
			1	45.00	1.50	--	67.50		
	Cross Rd 2		1	6.00	1.50	--	9.00		
	Railway mens colony	Sqm							
	Cross Rd 1		1	30.00	1.50	--	45.00		
			1	31.00	1.50	--	46.50		
	Cross Rd 2		1	13.00	1.50	--	19.50		
			1	9.00	1.50	--	13.50		
	Cross Rd 3		1	74.00	1.50	--	111.00		
			1	73.00	1.50	--	109.50		
	Cross Rd 4		1	32.00	1.50	--	48.00		
			1	21.50	1.50	--	32.25		
	Cross Rd 5		1	50.50	1.50	--	75.75		
			1	61.00	1.50	--	91.50		
	Cross Rd 6		1	26.00	1.50	--	39.00		
			1	31.00	1.50	--	46.50		
	Cross Rd 7		1	102.00	1.50	--	153.00		
			1	117.00	1.50	--	175.50		
	Cross Rd 8		1	62.00	1.50	--	93.00		
	Cross Rd 9		1	12.00	1.50	--	18.00		
			1	9.00	1.50	--	13.50		
	Cross Rd 10		1	7.00	1.50	--	10.50		
			1	12.00	1.50	--	18.00		
	Cross Rd 11		1	21.00	1.50	--	31.50		
			1	7.00	1.50	--	10.50		
	MCHS Layout								
	6th cross		1	79.00	1.50	--	118.50		
			1	71.00	1.50	--	106.50		
	Cross Road		1	13.00	1.50	--	19.50		
			1	11.00	1.50	--	16.50		
	7th cross		1	57.00	1.50	--	85.50		
			1	52.00	1.50	--	78.00		
							1777.50	**779.10**	**1384850.25**
	Quoted Rate	**779.10**							

RRB M300-1. Earth work excavation by manual means in ordinary soil involving an average rizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides eately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per pecification. MORTH / Chapter 3 (P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)								
Drain Desilt	Cum							
Hegdenagar								
7th cross Hegdenagar		1	201.40	0.60	0.45	54.38		
		1	217.00	0.60	0.50	65.10		
Cross Rd 2		1	29.00	0.60	0.50	8.70		
Railway mens colony								
Cross Rd 1		1	115.00	0.60	0.50	34.50		
		1	84.20	0.60	0.50	25.26		
Cross Rd 2		1	37.70	0.60	0.50	11.31		
		1	37.70	0.60	0.50	11.31		
Cross Rd 3		1	210.90	0.60	0.50	63.27		
		1	244.70	0.60	0.50	73.41		
Cross Rd 4		1	92.50	0.60	0.50	27.75		
		1	90.00	0.60	0.50	27.00		
Cross Rd 5		1	167.50	0.60	0.50	50.25		
		1	197.50	0.60	0.50	59.25		
Cross Rd 6		1	83.00	0.60	0.45	22.41		
		1	83.00	0.60	0.45	22.41		
Cross Rd 7		1	264.00	0.60	0.45	71.28		
		1	280.00	0.60	0.45	75.60		
Cross Rd 8		1	180.00	0.60	0.45	48.60		
Cross Rd 9		1	20.00	0.60	0.45	5.40		
		1	20.00	0.60	0.50	6.00		
Cross Rd 10		1	21.90	0.60	0.50	6.57		
		1	21.90	0.60	0.50	6.57		
Cross Rd 11		1	43.90	0.60	0.50	13.17		
		1	26.00	0.60	0.50	7.80		
MCHS Layout								
6th cross		1	157.20	0.60	0.50	47.16		
		1	204.50	0.60	0.45	55.22		
Cross Road		1	25.00	0.60	0.45	6.75		
		1	25.00	0.60	0.45	6.75		
7th cross		1	166.00	0.60	0.50	49.80		
		1	158.10	0.60	0.45	42.69		
Hegdenagar								
2nd cross Hegdenagar		1	167.00	0.60	0.50	50.10		
		1	185.00	0.60	0.50	55.50		
3rd cross Hegdenagar		1	192.00	0.60	0.45	51.84		
		1	188.00	0.60	0.45	50.76		
Overburden Earth								
		1	10.00	1.50	0.60	9.00		
		1	8.00	1.10	0.30	2.64		
		1	7.00	1.90	0.45	5.99		
		1	13.00	2.40	0.55	17.16		
		1	8.00	0.90	0.35	2.52		
		1	6.50	1.70	0.70	7.74		
For Flagging Coarse								
Hegdenagar								
7th cross Hegdenagar		2	201.40	0.20	0.20	16.11		
		2	217.00	0.20	0.20	17.36		
Cross Rd 2		2	29.00	0.20	0.20	2.32		
Railway mens colony								
Cross Rd 1		2	115.00	0.20	0.20	9.20		
		2	84.20	0.20	0.20	6.74		
Cross Rd 2		2	37.70	0.20	0.20	3.02		
		2	37.70	0.20	0.20	3.02		
Cross Rd 3		2	210.90	0.20	0.20	16.87		
		2	244.70	0.20	0.20	19.58		
Cross Rd 4		2	92.50	0.20	0.20	7.40		

		2	90.00	0.20	0.20	7.20		
oss Rd 5		2	167.50	0.20	0.20	13.40		
		2	197.50	0.20	0.20	15.80		
oss Rd 6		2	83.00	0.20	0.20	6.64		
		2	83.00	0.20	0.20	6.64		
Cross Rd 7		2	264.00	0.20	0.20	21.12		
		2	280.00	0.20	0.20	22.40		
Cross Rd 8		2	180.00	0.20	0.20	14.40		
Cross Rd 9		2	20.00	0.20	0.20	1.60		
		2	20.00	0.20	0.20	1.60		
Cross Rd 10		2	21.90	0.20	0.20	1.75		
		2	21.90	0.20	0.20	1.75		
Cross Rd 11		2	43.90	0.20	0.20	3.51		
		2	26.00	0.20	0.20	2.08		
MCHS Layout								
6th cross		2	157.20	0.20	0.20	12.58		
		2	204.50	0.20	0.20	16.36		
Cross Road		2	25.00	0.20	0.20	2.00		
		2	25.00	0.20	0.20	2.00		
7th cross		2	166.00	0.20	0.20	13.28		
		2	158.10	0.20	0.20	12.65		
Earthwork For Kerb								
For Flagging Coarse								
Hegdenagar								
7th cross Hegdenagar		1	201.40	0.25	0.15	7.55		
		1	217.00	0.25	0.15	8.14		
Cross Rd 2		1	29.00	0.25	0.15	1.09		
Railway mens colony								
Cross Rd 1		1	115.00	0.25	0.15	4.31		
		1	84.20	0.25	0.15	3.16		
Cross Rd 2		1	37.70	0.25	0.15	1.41		
		1	37.70	0.25	0.15	1.41		
Cross Rd 3		1	210.90	0.25	0.15	7.91		
		1	244.70	0.25	0.15	9.18		
Cross Rd 4		1	92.50	0.25	0.15	3.47		
		1	90.00	0.25	0.15	3.38		
Cross Rd 5		1	167.50	0.25	0.15	6.28		
		1	197.50	0.25	0.15	7.41		
Cross Rd 6		1	83.00	0.25	0.15	3.11		
		1	83.00	0.25	0.15	3.11		
Cross Rd 7		1	264.00	0.25	0.15	9.90		
		1	280.00	0.25	0.15	10.50		
Cross Rd 8		1	180.00	0.25	0.15	6.75		
Cross Rd 9		1	20.00	0.25	0.15	0.75		
		1	20.00	0.25	0.15	0.75		
Cross Rd 10		1	21.90	0.25	0.15	0.82		
		1	21.90	0.25	0.15	0.82		
Cross Rd 11		1	43.90	0.25	0.15	1.65		
		1	26.00	0.25	0.15	0.98		
MCHS Layout								
6th cross		1	157.20	0.25	0.15	5.90		
		1	204.50	0.25	0.15	7.67		
Cross Road		1	25.00	0.25	0.15	0.94		
		1	25.00	0.25	0.15	0.94		
7th cross		1	166.00	0.25	0.15	6.23		
		1	158.10	0.25	0.15	5.93		
Railway mens colony								
New Culvert								
		13	8.17	1.30	1.00	138.06		
		10	8.05	1.60	1.00	128.80		
						1937.55	**265.11**	**513671.70**
Quoted Rate	**265.11**							

	RRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with shed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ .46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including ring for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.No.222, I.No.27.18 of PW,P&IWTD S.R 2018-19)								
	For Bed Concrete	Cum						
	For Flagging Coarse PCC							
	Hegdenagar							
	7th cross Hegdenagar		2	201.40	0.20	0.10	8.06	
			2	217.00	0.20	0.10	8.68	
	Cross Rd 2		2	29.00	0.20	0.10	1.16	
	Railway mens colony							
	Cross Rd 1		2	115.00	0.20	0.10	4.60	
			2	84.20	0.20	0.10	3.37	
	Cross Rd 2		2	37.70	0.20	0.10	1.51	
			2	37.70	0.20	0.10	1.51	
	Cross Rd 3		2	210.90	0.20	0.10	8.44	
			2	244.70	0.20	0.10	9.79	
	Cross Rd 4		2	92.50	0.20	0.10	3.70	
			2	90.00	0.20	0.10	3.60	
	Cross Rd 5		2	167.50	0.20	0.10	6.70	
			2	197.50	0.20	0.10	7.90	
	Cross Rd 6		2	83.00	0.20	0.10	3.32	
			2	83.00	0.20	0.10	3.32	
	Cross Rd 7		2	264.00	0.20	0.10	10.56	
			2	280.00	0.20	0.10	11.20	
	Cross Rd 8		2	180.00	0.20	0.10	7.20	
	Cross Rd 9		2	20.00	0.20	0.10	0.80	
			2	20.00	0.20	0.10	0.80	
	Cross Rd 10		2	21.90	0.20	0.10	0.88	
			2	21.90	0.20	0.10	0.88	
	Cross Rd 11		2	43.90	0.20	0.10	1.76	
			2	26.00	0.20	0.10	1.04	
	MCHS Layout							
	6th cross		2	157.20	0.20	0.10	6.29	
			2	204.50	0.20	0.10	8.18	
	Cross Road		2	25.00	0.20	0.10	1.00	
			2	25.00	0.20	0.10	1.00	
	7th cross		2	166.00	0.20	0.10	6.64	
			2	158.10	0.20	0.10	6.32	
	For Kerb							
	Hegdenagar							
	7th cross Hegdenagar		1	201.40	0.20	0.10	4.03	
			1	217.00	0.20	0.10	4.34	
	Cross Rd 2		1	29.00	0.20	0.10	0.58	
	Railway mens colony							
	Cross Rd 1		1	115.00	0.20	0.10	2.30	
			1	84.20	0.20	0.10	1.68	
	Cross Rd 2		1	37.70	0.20	0.10	0.75	
			1	37.70	0.20	0.10	0.75	
	Cross Rd 3		1	210.90	0.20	0.10	4.22	
			1	244.70	0.20	0.10	4.89	
	Cross Rd 4		1	92.50	0.20	0.10	1.85	
			1	90.00	0.20	0.10	1.80	
	Cross Rd 5		1	167.50	0.20	0.10	3.35	
			1	197.50	0.20	0.10	3.95	
	Cross Rd 6		1	83.00	0.20	0.10	1.66	
			1	83.00	0.20	0.10	1.66	
	Cross Rd 7		1	264.00	0.20	0.10	5.28	
			1	280.00	0.20	0.10	5.60	
	Cross Rd 8		1	180.00	0.20	0.10	3.60	

	ss Rd 9		1	20.00	0.20	0.10	0.40		
			1	20.00	0.20	0.10	0.40		
	ross Rd 10		1	21.90	0.20	0.10	0.44		
			1	21.90	0.20	0.10	0.44		
	Cross Rd 11		1	43.90	0.20	0.10	0.88		
			1	26.00	0.20	0.10	0.52		
	MCHS Layout								
	6th cross		1	157.20	0.20	0.10	3.14		
			1	204.50	0.20	0.10	4.09		
	Cross Road		1	25.00	0.20	0.10	0.50		
			1	25.00	0.20	0.10	0.50		
	7th cross		1	166.00	0.20	0.10	3.32		
			1	158.10	0.20	0.10	3.16		
	For Gap between Slab and Kerb Stone								
	Hegdenagar								
	7th cross Hegdenagar		1	201.40	0.10	0.10	2.01		
			1	217.00	0.10	0.10	2.17		
	Cross Rd 2		1	29.00	0.10	0.10	0.29		
	Railway mens colony								
	Cross Rd 1		1	115.00	0.10	0.10	1.15		
			1	84.20	0.10	0.10	0.84		
	Cross Rd 2		1	37.70	0.10	0.10	0.38		
			1	37.70	0.10	0.10	0.38		
	Cross Rd 3		1	210.90	0.10	0.10	2.11		
			1	244.70	0.10	0.10	2.45		
	Cross Rd 4		1	92.50	0.10	0.10	0.93		
			1	90.00	0.10	0.10	0.90		
	Cross Rd 5		1	167.50	0.10	0.10	1.68		
			1	197.50	0.10	0.10	1.98		
	Cross Rd 6		1	83.00	0.10	0.10	0.83		
			1	83.00	0.10	0.10	0.83		
	Cross Rd 7		1	264.00	0.10	0.10	2.64		
			1	280.00	0.10	0.10	2.80		
	Cross Rd 8		1	180.00	0.10	0.10	1.80		
	Cross Rd 9		1	20.00	0.10	0.10	0.20		
			1	20.00	0.10	0.10	0.20		
	Cross Rd 10		1	21.90	0.10	0.10	0.22		
			1	21.90	0.10	0.10	0.22		
	Cross Rd 11		1	43.90	0.10	0.10	0.44		
			1	26.00	0.10	0.10	0.26		
	MCHS Layout								
	6th cross		1	157.20	0.10	0.10	1.57		
			1	204.50	0.10	0.10	2.05		
	Cross Road		1	25.00	0.10	0.10	0.25		
			1	25.00	0.10	0.10	0.25		
	7th cross		1	166.00	0.10	0.10	1.66		
			1	158.10	0.10	0.10	1.58		
	For CC Road								
	Hegdenagar								
	7th cross, A		1	44.60	5.35	0.15	35.79		
	7th cross, B		1	26.80	5.55	0.15	22.31		
	Cross Road-1		1	119.00	6.55	0.15	116.92		
	New Culvert								
			13	8.17	1.30	0.15	20.71		
			10	8.05	1.60	0.15	19.32		
							460.37	**5693.00**	**2620886.47**
	Quoted Rate	**5693.00**							
6	KSRB 5-11 : Providing and constructing load bearing wall with having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials labour charegs, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 .-do- solid concrete blocks of size 400x150x200 mm (Page No.27. Iitem no.5.27.2 of KPWD S.R Bangalore Circle (2018-19)								

		Sqm							
	r Flagging Coarse								
	egdenagar								
	h cross Hegdenagar		2	201.40		0.40	161.12		
			2	217.00		0.40	173.60		
	Cross Rd 2		2	29.00		0.40	23.20		
	Railway mens colony								
	Cross Rd 1		2	115.00		0.40	92.00		
			2	84.20		0.40	67.36		
	Cross Rd 2		2	37.70		0.40	30.16		
			2	37.70		0.40	30.16		
	Cross Rd 3		2	210.90		0.40	168.72		
			2	244.70		0.40	195.76		
	Cross Rd 4		2	92.50		0.40	74.00		
			2	90.00		0.40	72.00		
	Cross Rd 5		2	167.50		0.40	134.00		
			2	197.50		0.40	158.00		
	Cross Rd 6		2	83.00		0.40	66.40		
			2	83.00		0.40	66.40		
	Cross Rd 7		2	264.00		0.40	211.20		
			2	280.00		0.40	224.00		
	Cross Rd 8		2	180.00		0.40	144.00		
	Cross Rd 9		2	20.00		0.40	16.00		
			2	20.00		0.40	16.00		
	Cross Rd 10		2	21.90		0.40	17.52		
			2	21.90		0.40	17.52		
	Cross Rd 11		2	43.90		0.40	35.12		
			2	26.00		0.40	20.80		
	MCHS Layout								
	6th cross		2	157.20		0.40	125.76		
			2	204.50		0.40	163.60		
	Cross Road		2	25.00		0.40	20.00		
			2	25.00		0.40	20.00		
	7th cross		2	166.00		0.40	132.80		
			2	158.10		0.40	126.48		
							2803.68	**1060.69**	**2973832.54**
	Quoted Rate	**1060.69**							
7	KSRB 4-1.1: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.1 of PW,P&IWTD S.R 2018-19)								
	Coping	Cum							
	Hegdenagar								
	7th cross Hegdenagar		2	201.40	0.15	0.075	4.53		
			2	217.00	0.15	0.075	4.88		
	Cross Rd 2		2	29.00	0.15	0.075	0.65		
	Railway mens colony								
	Cross Rd 1		2	115.00	0.15	0.075	2.59		
			2	84.20	0.15	0.075	1.89		
	Cross Rd 2		2	37.70	0.15	0.075	0.85		
			2	37.70	0.15	0.075	0.85		
	Cross Rd 3		2	210.90	0.15	0.075	4.75		
			2	244.70	0.15	0.075	5.51		
	Cross Rd 4		2	92.50	0.15	0.075	2.08		
			2	90.00	0.15	0.075	2.03		
	Cross Rd 5		2	167.50	0.15	0.075	3.77		
			2	197.50	0.15	0.075	4.44		
	Cross Rd 6		2	83.00	0.15	0.075	1.87		
			2	83.00	0.15	0.075	1.87		
	Cross Rd 7		2	264.00	0.15	0.075	5.94		
			2	280.00	0.15	0.075	6.30		

s Rd 8		2	180.00	0.15	0.075	4.05		
ss Rd 9		2	20.00	0.15	0.075	0.45		
		2	20.00	0.15	0.075	0.45		
oss Rd 10		2	21.90	0.15	0.075	0.49		
		2	21.90	0.15	0.075	0.49		
Cross Rd 11		2	43.90	0.15	0.075	0.99		
		2	26.00	0.15	0.075	0.59		
MCHS Layout								
6th cross		2	157.20	0.15	0.075	3.54		
		2	204.50	0.15	0.075	4.60		
Cross Road		2	25.00	0.15	0.075	0.56		
		2	25.00	0.15	0.075	0.56		
7th cross		2	166.00	0.15	0.075	3.74		
		2	158.10	0.15	0.075	3.56		
Ramp Concrete for Culvert	2	13	8.17	1.50	0.15	47.79		
	2	10	8.05	1.50	0.15	36.23		
						162.87	**5879.98**	**957672.18**
Quoted Rate	**5879.98**							
8	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.16, I.No.4.28 of PW, P&IWTD SR 2018-19)								
For Culvert	Sqm								
	2	13	8.17		0.25	53.10		
	2	10	8.05		0.25	40.25		
						93.35	**287.15**	**26805.40**
Quoted Rate	**287.15**							
9	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.16, I.No.4.31 of PW,P&IWTD SR 2018-19)								
	Sqm								
For Culvert									
	4	13	8.17		0.60	254.87		
	4	10	8.05		0.60	193.20		
						448.07	**398.45**	**178536.40**
Quoted Rate	**398.45**							
10	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2018-19)								
	Cum								
For Culvert									
Bottom Slab									
		13	8.17	1.20	0.25	31.86		
		10	8.05	1.50	0.25	30.19		
Side Wall									
	2	13	8.17	0.25	0.60	31.86		
	2	10	8.05	0.25	0.60	24.15		
						118.06	**6059.17**	**715319.**
Quoted Rate	**6059.17**							

	RB - 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, nding, hooking, palcing in position, lapping and / or welding wherever required, tying with binding ire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.18, I.No.4.46.2 of PW, P&IWTD SR 2018-19)								
		Tonne							
	Consider 80Kgs/cum for culvert			118.06	0.080	--	9.45		
							9.45	**78985.16**	**746409.74**
	Quoted Rate	**78985.16**							
12	Providing and fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Cover Slab	Sqm							
	For Flagging Coarse								
	Hegdenagar								
	7th cross Hegdenagar		1	201.40	0.90		181.26		
			1	217.00	0.90		195.30		
	Cross Rd 2		1	29.00	0.90		26.10		
	Railway mens colony								
	Cross Rd 1		1	115.00	0.90		103.50		
			1	84.20	0.90		75.78		
	Cross Rd 2		1	37.70	0.90		33.93		
			1	37.70	0.90		33.93		
	Cross Rd 3		1	210.90	0.75		158.18		
			1	244.70	0.90		220.23		
	Cross Rd 4		1	92.50	0.90		83.25		
			1	90.00	0.75		67.50		
	Cross Rd 5		1	167.50	0.90		150.75		
			1	197.50	0.75		148.13		
	Cross Rd 6		1	83.00	0.75		62.25		
			1	83.00	0.75		62.25		
	Cross Rd 7		1	264.00	0.90		237.60		
			1	280.00	0.90		252.00		
	Cross Rd 8		1	180.00	0.90		162.00		
	Cross Rd 9		1	20.00	0.75		15.00		
			1	20.00	0.75		15.00		
	Cross Rd 10		1	21.90	0.75		16.43		
			1	21.90	0.75		16.43		
	Cross Rd 11		1	43.90	0.75		32.93		
			1	26.00	0.75		19.50		
	MCHS Layout								
	6th cross		1	157.20	0.90		141.48		
			1	204.50	0.90		184.05		
	Cross Road		1	25.00	0.90		22.50		
			1	25.00	0.90		22.50		
	7th cross		1	166.00	0.90		149.40		
			1	158.10	0.90		142.29		
	Hegdenagar								
	2nd cross Hegdenagar		1	69.00	0.90		62.10		
			1	66.00	0.90		59.40		
	Cross Rd 2		1	60.00	0.90		54.00		
			1	47.00	0.90		42.30		
							3249.23	**2453.85**	**7973110.77**
	Quoted Rate	**2453.85**							
13	Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Cover	Sqm							

	Culvert								
			13	8.17	1.20		127.44		
			10	8.05	1.50		120.75		
							248.19	**6195.00**	**1537514.75**
	Quoted Rate	**6195.00**							
14	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) ((P.No.176,								
		Cum							
	For CC Road								
	Hegdenagar								
	7th cross, A		1	44.60	5.35	0.15	35.79		
	7th cross, B		1	26.80	5.55	0.15	22.31		
	Cross Road-1		1	119.00	6.55	0.15	116.92		
							175.02	**5384.69**	**942429.14**
	Quoted Rate	**5384.69**							
15	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.174, I.No.22.7 of PW, P&IWTD SR 2018-19)								
		Sqm							
	For CC Road								
	Hegdenagar								
	7th cross, A		1	44.60	5.35	--	238.61		
	7th cross, B		1	26.80	5.55	--	148.74		
	Cross Road-1		1	119.00	6.55	--	779.45		
							1166.80	**75.68**	**88308.0912**
	Quoted Rate	**75.68**							
16	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. (P.No.27, I.No.5.30 of PW,P&IWTD S.R 2018-19)								
		m							
	Hegdenagar								
	7th cross Hegdenagar		1	201.40			201.40		
			1	217.00			217.00		
	Cross Rd 2		1	29.00			29.00		
	Railway mens colony								
	Cross Rd 1		1	115.00			115.00		
			1	84.20			84.20		
	Cross Rd 2		1	37.70			37.70		
			1	37.70			37.70		
	Cross Rd 3		1	210.90			210.90		
			1	244.70			244.70		
	Cross Rd 4		1	92.50			92.50		
			1	90.00			90.00		
	Cross Rd 5		1	167.50			167.50		
			1	197.50			197.50		
	Cross Rd 6		1	83.00			83.00		
			1	83.00			83.00		
	Cross Rd 7		1	264.00			264.00		
			1	280.00			280.00		

	ss Rd 8		1	180.00			180.00		
	ss Rd 9		1	20.00			20.00		
			1	20.00			20.00		
	oss Rd 10		1	21.90			21.90		
			1	21.90			21.90		
	Cross Rd 11		1	43.90			43.90		
			1	26.00			26.00		
	MCHS Layout								
	6th cross		1	157.20			157.20		
			1	204.50			204.50		
	Cross Road		1	25.00			25.00		
			1	25.00			25.00		
	7th cross		1	166.00			166.00		
			1	158.10			158.10		
							3504.60		
							7788.00	**454.10**	**3536561.95**
	Quoted Rate	**454.10**							
17	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.180, I.No. 24.1 of PW,P&IWTD SR 2018-19)								
	Kerb Paiting	Sqm							
	Hegdenagar								
	7th cross Hegdenagar		1	201.40	--	0.35	70.49		
			1	217.00	--	0.35	75.95		
	Cross Rd 2		1	29.00	--	0.35	10.15		
	Railway mens colony								
	Cross Rd 1		1	115.00	--	0.35	40.25		
			1	84.20	--	0.35	29.47		
	Cross Rd 2		1	37.70	--	0.35	13.20		
			1	37.70	--	0.35	13.20		
	Cross Rd 3		1	210.90	--	0.35	73.82		
			1	244.70	--	0.35	85.65		
	Cross Rd 4		1	92.50	--	0.35	32.38		
			1	90.00	--	0.35	31.50		
	Cross Rd 5		1	167.50	--	0.35	58.63		
			1	197.50	--	0.35	69.13		
	Cross Rd 6		1	83.00	--	0.35	29.05		
			1	83.00	--	0.35	29.05		
	Cross Rd 7		1	264.00	--	0.35	92.40		
			1	280.00	--	0.35	98.00		
	Cross Rd 8		1	180.00	--	0.35	63.00		
	Cross Rd 9		1	20.00	--	0.35	7.00		
			1	20.00	--	0.35	7.00		
	Cross Rd 10		1	21.90	--	0.35	7.67		
			1	21.90	--	0.35	7.67		
	Cross Rd 11		1	43.90	--	0.35	15.37		
			1	26.00	--	0.35	9.10		
	MCHS Layout								
	6th cross		1	157.20	--	0.35	55.02		
			1	204.50	--	0.35	71.58		
	Cross Road		1	25.00	--	0.35	8.75		
			1	25.00	--	0.35	8.75		
	7th cross		1	166.00	--	0.35	58.10		
			1	158.10	--	0.35	55.34		
							1226.61	**89.04**	**109217.35**
	Quoted Rate	**89.04**							
18	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2018-19)								
		Cum							

	For CC Road								
	Hegdenagar								
	7th cross, A		1	44.60	5.35	0.25	59.65		
	7th cross, B		1	26.80	5.55	0.25	37.19		
	Cross Road-1		1	119.00	6.55	0.25	194.86		
							291.70	**159.24**	**46451.18**
	Quoted Rate	**159.24**							
19	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.155, I.No.20.18 of PW.P&IWTD SR 2018-19)								
		Cum							
	For CC Road								
	Hegdenagar								
	7th cross, A		1	44.60	5.35	0.15	35.79		
	7th cross, B		1	26.80	5.55	0.15	22.31		
	Cross Road-1		1	119.00	6.55	0.15	116.92		
							175.02	**2101.34**	**367777.23**
	Quoted Rate	**2101.34**							
20	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications.**(P.No.6, I.No.2.1) (SR of PWD)**								
	Water Line Connection	Cum							
	Railway mens colony								
	Cross Rd 1		1	120.00	0.45	0.70	37.80		
	Cross Rd 2		1	39.00	0.30	0.60	7.02		
	Cross Rd 3		1	260.00	0.30	0.60	46.80		
	Cross Rd 4		1	120.00	0.45	0.70	37.80		
	Cross Rd 5		1	150.00	0.45	0.70	47.25		
	Cross Rd 6		1	56.00	0.30	0.60	10.08		
	Cross Rd 7		1	280.00	0.30	0.60	50.40		
	Cross Rd 9		1	20.00	0.30	0.60	3.60		
	Cross Rd 10		1	96.00	0.45	0.70	30.24		
	Cross Rd 11		1	45.00	0.45	0.70	14.18		
	Saraipalya								
	Govt. School Opp.		1	94.00	0.45	0.70	29.61		
							314.78	**269.29**	**84767.00**
	Quoted Rate	**269.29**							
21	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 160mm outer dia.(P.No.77,sI.No.11.56.4 of PW, P&IWTD SR 2018-19								
		Rmtr							
	Water Line Connection								
	Railway mens colony								
	Cross Rd 1		1	120.00	--	--	120.00		
	Cross Rd 2		1	39.00	--	--	39.00		
	Cross Rd 3		1	260.00	--	--	260.00		
	Cross Rd 4		1	120.00	--	--	120.00		
	Cross Rd 5		1	150.00	--	--	150.00		
	Cross Rd 6		1	56.00	--	--	56.00		
	Cross Rd 7		1	280.00	--	--	280.00		
	Cross Rd 9		1	20.00	--	--	20.00		
	Cross Rd 10		1	96.00	--	--	96.00		
	Cross Rd 11		1	45.00	--	--	45.00		
	Saraipalya								

	Govt. School Opp.		1	94.00	--	--	94.00		
							1280.00	**1393.48**	**1783649.00**
	Quoted Rate	**1393.48**							
22	KSRB 2.6 : Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications.specification. No. KBS 2.10.2(P.No.6,sI.No.2.13 of PW, P&IWTD SR 2018-19)								
		Cum							
	Water Line Connection								
	Railway mens colony								
	Cross Rd 1		1	120.00	0.30	0.40	14.40		
	Cross Rd 2		1	39.00	0.30	0.40	4.68		
	Cross Rd 3		1	260.00	0.30	0.40	31.20		
	Cross Rd 4		1	120.00	0.30	0.40	14.40		
	Cross Rd 5		1	150.00	0.30	0.40	18.00		
	Cross Rd 6		1	56.00	0.30	0.40	6.72		
	Cross Rd 7		1	280.00	0.30	0.40	33.60		
	Cross Rd 9		1	20.00	0.30	0.40	2.40		
	Cross Rd 10		1	96.00	0.30	0.40	11.52		
	Cross Rd 11		1	45.00	0.30	0.40	5.40		
	Saraipalya								
	Govt. School Opp.		1	94.00	0.30	0.40	11.28		
							153.60	**2292.78**	**352171.01**
	Quoted Rate	**2292.78**							
23	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(P.No.4, I.No.2.11 of PW, P&IWTD SR 2018-19)								
		Cum							
	From item no. 21						314.78		
	Deduct from item no. 22						-153.60		
							161.18		
	Deduct 15% for compaction						24.18		
							137.00	**134.67**	**18450.03**
	Quoted Rate	**134.67**							
24	KSRB13-3.6 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6.(P.No.92, I.No.13.15 of PW, P&IWTD SR 2018-19)								
		Rmtr							
	Cross Rd 5		1	99.00	--	--	99.00		
							99.00	**431.84**	**42752.56**
	Quoted Rate	**431.84**							
								TOTAL AMOUNT	**27541531.73**

Assistant Engineer 27/6/19

Assistant Executive Engineer
Project Division, Yelahanka Zone

Executive Engineer
Project Division,
Yelahanka Zone
27/6/19

Technical Sanction
Accorded For Rs 27541531.73
Head of A/C P3522
CER NO : 07 Dt: 28.06.19

TA CE (YNK)